

[Claims]

[1] A manufacturing method of an absorbent body, wherein:

a stripe-shaped absorbent body base, including an absorbent element obtained by mixing at least pulp with super absorbent polymer, is sent and transferred through a pair of rollers that are provided to be opposed to each other with a predetermined distance, wherein at least one of the rollers is a press print processing roller that has a plurality of processing projections with a predetermined layout on a circumference surface; and

a plurality of linear pattern elements are formed on at least one surface of the absorbent body base, wherein the linear pattern elements are formed by being squeezed by the processing projections so as to have a groove-like shape when seen from the top, and the plurality of linear pattern elements are individually spaced from one another and dispersed in a staggered manner.

[2] The manufacturing method of an absorbent body according to Claim 1, wherein the linear pattern elements are arranged so that number of the linear pattern elements on any of straight line that extend in a width direction orthogonal to a transfer direction of the absorbent body base is equal, and so that the linear pattern elements have a fixed distance thereamong in the width direction.

[3] The manufacturing method of an absorbent body according to Claim 1 or 2, wherein the linear pattern elements are formed in a linear shape so that an orientation angle, which is a degree of inclination of the linear pattern elements to the transfer direction of the absorbent body base, is 50 degrees or less at any portion.

[4] An absorbent body for disposable diaper manufactured by the manufacturing method of an absorbent body according to any one of Claims 1 to 3, wherein:

the absorbent element is filled into a storage bag obtained by sealing edge parts of a liquid-permeable sheet of the absorbent body base provided with the linear pattern elements;

the plurality of linear pattern elements having a linear groove shape when being seen from the top are arranged to have spaces thereamong in a dispersed and staggered manner while the absorbent element is squeezed until its absorption performance almost disappears; and

an area in the absorbent body base in which the linear pattern elements are not formed have a predetermined thickness.

[5] The absorbent body for disposable diaper according to Claim 4, wherein the absorbent body base used

for disposable diaper has an inner surface that is adhered with a liquid diffusion sheet and the plurality of linear pattern elements are formed concavely, together with the liquid diffusion sheet, in the inner surface of the absorbent body base.

[6] The absorbent body for disposable diaper according to Claim 4 or 5, wherein the plurality of linear pattern elements are formed concavely on both faces of the absorbent body base so as to be opposed to one another with the same layout.